

M 4.1, 19km NW of Covelo, CA

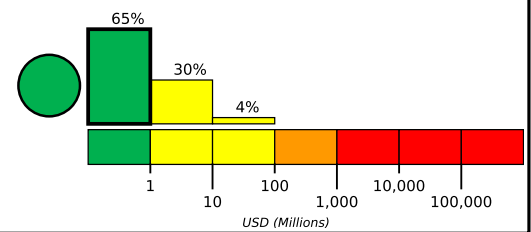
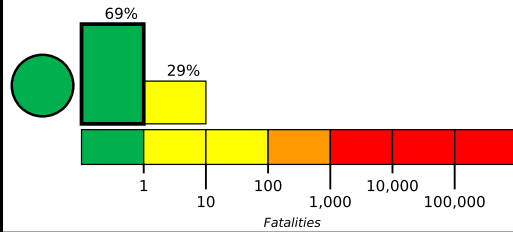
Origin Time: 2021-11-04 00:24:34 UTC (Wed 17:24:34 local)
Location: 39.8938° N 123.4245° W Depth: 7.4 km

Created: 6 hours, 2 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

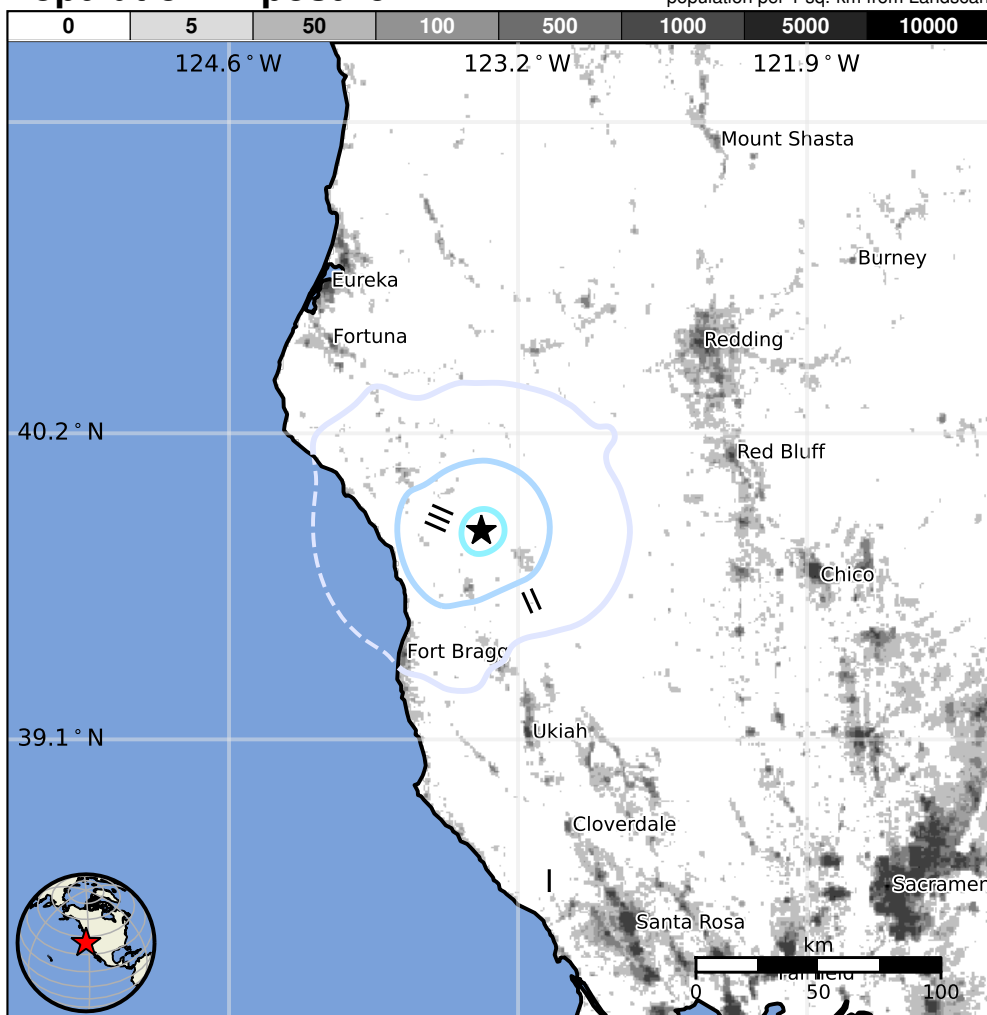


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	4,495k	43k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-09-21	293	6.0	VI(47k)	1
1980-01-24	283	5.8	VII(35k)	1
1989-10-18	341	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Covelo	1k
III	Laytonville	1k
II	Redway	1k
II	Fort Bragg	7k
II	Willits	5k
II	Brooktrails	3k
I	Sacramento	466k
I	Santa Rosa	168k
I	Elk Grove	153k
I	Roseville	119k
I	Vallejo	116k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/nc73648540#pager>

bold cities appear on map.

(k = x1000)

Event ID: nc73648540